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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/813,566	03/30/2004	Susanne A. Paul	SIL.P0077	4126
30163	7590	03/27/2006	EXAMINER	
JOHNSON & ASSOCIATES PO BOX 90698 AUSTIN, TX 78709-0698			SHINGLETON, MICHAEL B	
			ART UNIT	PAPER NUMBER
			2817	

DATE MAILED: 03/27/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

<b>Office Action Summary</b>	Application No.	Applicant(s)	
	10/813,566	PAUL ET AL.	
	Examiner	Art Unit	
	Michael B. Shingleton	2817	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --  
**Period for Reply**

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

#### Status

- 1) ☒ Responsive to communication(s) filed on 03 February 2006.
- 2a) ☐ This action is **FINAL**.      2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

#### Disposition of Claims

- 4) ☒ Claim(s) 47-85 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_\_ is/are allowed.
- 6) ☒ Claim(s) 47-85 is/are rejected.
- 7) ☐ Claim(s) \_\_\_\_\_ is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

#### Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on \_\_\_\_\_ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

#### Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All    b) ☐ Some \*    c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
  2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
  3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

#### Attachment(s)

- 1) ☒ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☒ Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)  
Paper No(s)/Mail Date 11/11/05 2 sheets 11/10/05 one sheet  
2/3/06 4 sheets

- 4) ☐ Interview Summary (PTO-413)  
Paper No(s)/Mail Date. \_\_\_\_\_
- 5) ☐ Notice of Informal Patent Application (PTO-152)
- 6) ☐ Other: \_\_\_\_\_

*Michael B. Shingleton*  
**MICHAEL B SHINGLETON**  
**PRIMARY EXAMINER**  
**1001 PART 1 INIT 0117**

### DETAILED ACTION

The terminal disclaimer submitted February 3, 2006 has been approved.

#### *Claim Rejections - 35 USC § 103*

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

Claims 47-85 are rejected under 35 U.S.C. 103(a) as being unpatentable over Meiksin et al. 6,370,396 (Meiksin) in view of Nalbant 6,763,114 (Nalbant).

Meiksin discloses a RF structure and method where the bridge power amplifier is able to supply high current into the antenna without the need for a high voltage. Meiksin is silent on the structure of the bridge amplifier structure. Being that an antenna is involved in Meiksin the device is considered to be “wireless”.

At least Figures 3 and 6B and the relevant text of Nalbant disclose a CMOS device and method for operating the CMOS device. The device of Nalbant is primarily disclosed as being used for audio applications. However, this is merely one example of the intended use. The circuit may be used in “applications requiring low power consumption and needing high power output”. The power amplifier of Meiksin is one such use requiring low power consumption and high power output. As shown Figure 6B of Nalbant two CMOS pairs are provided thereby forming a bridge power amplifier structure. The first CMOS pair is composed of Q1 and Q4. The second CMOS pair is composed of Q2 and Q3 as is clearly illustrated in Figure 6B of Nalbant. Figures 6A and 6B in combination of Nalbant clearly shows these pairs of switching devices being connected between a “voltage differential” (Note the ground connection shown in Figure 6B and the supply potential shown in Figure 6A.). As recited in column 2, around line 9, the CMOS transistor pair Q1 and Q4 is turned on and off together as a unit. Such is also the case with the transistor pair Q2 and Q3. The switching of these pairs is done in an alternative manner i.e. when Q1 and Q4 are on then the pair represented by Q2 and Q3 are off. The inductances L1-L4 form an inductance between the switching devices of each respective pair of switching devices. Claims like claim 47 recites that there is a “transformation network” coupled between the first and second switching devices. This transformation network is formed by the capacitors C1-C4 or the inductors L1-L4 or any combination of

these elements.

Accordingly, it would have been obvious to one of ordinary skill in the art at the time the invention was made to replace the bridge amplifier structure of Meiksin with the one taught by Nalbant because as the Meiksin reference is silent on the exact structure of the bridge amplifier structure one of ordinary skill in the art would have been motivated to use any art-recognized equivalent bridge amplifier structure including one that has a power amplifier such as the one taught by Nalbant. Thus the use of RF power amplification would be provided for in such a combination.

#### *Conclusion*

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. The use of bridge based amplifiers to provide RF amplification is specifically shown in Figure 1 of Gerfault US 5,453,717.

Applicant's arguments with respect to claims of record have been considered but are moot in view of the new ground(s) of rejection.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Michael B. Shingleton whose telephone number is (571) 272-1770.

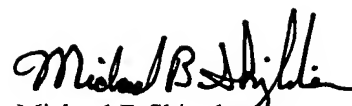
If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Robert Pascal, can be reached on (571)272-1769. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306 and after July 15, 2005 the fax number will be 571-273-8300. Note that old fax number (703-872-9306) will be service until September 15, 2005.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

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MBS  
March 3, 2006

  
Michael B Shingleton  
Primary Examiner  
Group Art Unit 2817